## DUE 50032

## COMMUNICATIVE

## ENGLISH 3

## Description of Graphs and Charts

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MINISTRY OF HIGHER EDUCATION POLITEKNIK SANDAKAN SABAH GENERAL STUDIES DEPARTMENT

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## SUMMARY

E-book on Description of Graphs and Charts developed as an initial guide for Politeknik Sandakan Sabah (PSS) students whom taking Diploma in Agrotechnology and Diploma in Aquaculture.

This book focuses on developing the necessary skills in students to analyse and interpret graphs and charts from data collected. Students will learn to gather data and present them through the use of graphs and charts.

With the production of this book, PSS students will be able to present gathered data in graphs and charts form effectively using appropriate language forms and functions.

## UNIT 1 <br> DESCRIPTION OF GRAPHS AND CHARTS



## INTRODUCTION

Graphs and Charts is the most effective ways to present information in a simple manner. A graph is a chart that shows the relationship between changing things. Common graphs and charts used are bar graph, line graph, pie chart and table. Pictogram is also used to display data and information.

## TYPES OF CHARTS AND GRAPHS

1. LINE GRAPH is used to show trends. It shows the relationship between two variables. When studying line charts, you should identify the labels such Graph Title, Legend, Y-axis or vertical axis, The Data Labels, and X-Axis or horizontal axis.

(Formplus, 2020)
2. BAR GRAPH is very similar to line graph. It shows categories of value or data. The things that you need to be alert in bar graphs are stated as follow:
a) What is the subject of the chart?
b) How the sections relate to the topic?
c) What is the relative statistic that each bar represents?

(Tonya Sides, 2020)
3. PIE CHART is a circle divided into slices/ segments/ sectors. (Ranjini Valauthan, 2007) It is usually to show percentage. The things that you need to be alert in pie charts are stated as follow:
a) What does the entire circle represent?
b) What do the various parts of the circle represent?
c) How to make the percentages comparison?

## Favorite Pot Pies

## Chart Title


(Diana Ramos, 2018)
4. TABLE is a collection of numbers and words arranged in rows and used for displaying data.

Vaccine Injection in Sandakan Health Clinic, January 2016

(UNICOM Intelligence, 2016)
5. PICTOGRAM is used to display data or information using pictures. Fill in the correct answer in the box given.

(BBC, 2011)

Exercise 1: State the best graph of presenting the following data.

1. The relationship between the sales of the car and the petrol price.
2. The number of students failed in final test.
3. People in stores.
4. Progress of the sales of book for a two- year period.
5. Sales of car.
6. The number of visits to three music websites by Teenagers in 4 weeks.
7. The number of road accidents by category of drivers between 2018 and 2020 .

Exercise 2: Based on the line graph, answer question 1-7.


1. What is the type of graph shown in exercise 2 ?
(Math Gooies, 2020)
2. When is the peak hour at the store?
3. When does business start to slow down?
$\qquad$
4. State the number of people are in the store when it opens.
$\qquad$
5. How many people are in the store at $12: 30 \mathrm{pm}$ ?
6. What was the highest number of people in the store?
7. Other than "People in a Store", suggest a suitable title for this line graph.

Exercise 3: Sketch different types of graphs and charts in the space given.
a) Bar Graph

b) Pie Chart

| Single Pie Chart | Exploded Pie Chart |
| :---: | :---: |
|  |  |
|  |  |
|  |  |

C) Line Graph

| Multiple Line Graph | Compound Line Graph |
| :---: | :---: |
|  |  |
|  |  |
|  |  |

Exercise 4: Name the following charts correctly.


Exercise 5: Draft a bar graph information in the table below.

| No. | Parts/ Labels | Information |
| :---: | :--- | :--- |
| 1. | Title |  |
| 2. | Vertical axis |  |
| 3. | Horizontal axis |  |
| 4. | Bars/Columns |  |
| 5. | Legend |  |
| 6. | Explanatory notes |  |
| 7. | Source of Information |  |

Exercise 5.1: Draw a suitable bar graph by using the information stated in Exercise 5.

Exercise 6: Draft a pie chart information in the table below.

| No. | Parts/Labels | Meaning |
| :---: | :--- | :--- |
| 1. | Title |  |
| 2. | Sections/ segments/ slices |  |
| 3. | Legend |  |
| 4. | Explanatory notes |  |
| 5. | Source of Information |  |

Exercise 6.1: Draw a suitable pie chart to explain the parts/labels in Exercise 6.

Exercise 7: Draft a line graph information in the table below.

| No. | Parts/Labels | Meaning |
| :---: | :--- | :--- |
| 1. | Title |  |
| 2. | Vertical axis |  |
| 3. | Horizontal axis |  |
| 4. | Lines |  |
| 5. | Explanatory notes |  |
| $\mathbf{6 .}$ | Source of Information |  |

Exercise 7.1: Draw a suitable line graph to explain the following parts/labels in Exercise 7.

## LANGUAGE OF GRAPHS AND CHARTS

Exercise 8:
Place your answer in the box given.


$\square$
$\square$ rally $\square$ bounce back
$\square$ take off $\square$ crash $\square$ escalate $\square$ slide $\square$ flatten out
$\square$ decline $\square$ rocket $\square$ dip $\square$ fluctuate $\square$ hold steady

1
A
B
C
D
E
F
G

Exercise 9:
Circle your correct answer.



Exercise 10: Transform the VERB sentence in Activity 1 into a Noun sentence in Activity 2. The first one has been done for you.

## Activity 1:

1. McD sales bottomed out.
2. The population rose slightly from 9.9 million to 10 million between 2010 and 2020.
3. Proton sales grew steadily over the year.
4. The percentage of PSS students' intake remained in 2020 and 2021.
5. The number of road accident dropped sharply from June to August.
6. Mega sales at Bataras Hypermarket inclined gradually through the year.
7. The number of fresh graduates reduced slowly from 16,000 to 15,500 in 2018 and 2019.
8. The percentage of school students' preferable nasi lemak boost a little in the first three months.

## Pre-test Activity 2:

1. There was a bottom out in McD sales.
2. There was a $\qquad$
$\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
$\qquad$
6. $\qquad$
$\qquad$
7. $\qquad$
$\qquad$
$\qquad$
8. $\qquad$
$\qquad$
$\qquad$

## HOW TO DESCRIBE GRAPHS AND CHARTS

## LINE GRAPH

The function of many graphs is to describe the trends. Trends refer to the changes or movements in facts and a direction of price over a period time. Basically, there are four trends;

4 upward movement: $\boldsymbol{\pi}$
4 downward movement: צ
4 no movement:
$\pm$ change in direction: $\searrow$ or $\leftarrow$
The table below shows example of words that can used in describing the trends and movements:-

1. Indicating upward movement:

| VERB |  | NOUN |
| :--- | :--- | :--- |
| Simple Present Tense | Simple Past Tense |  |
| 1. grow | grew | A growth |
| 2. increase | increased | an increase |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |
| 8. |  |  |
| 9. |  |  |
| 10. |  |  |
| 11. |  |  |
| 12. |  |  |
| 13. |  |  |
| 14. |  |  |
| 15. |  |  |
| 16. |  |  |
| 17. |  |  |
| 18. |  |  |
| 19. |  |  |
| 20. |  |  |
| 21. |  |  |

## 2. Indicating downward movement: צ

| VERB |  | NOUN |
| :--- | :--- | :--- |
| Simple Present Tense | Simple Past Tense |  |
| 1. decrease | decreased | a decrease |
| 2. reduce | reduced | a reduction |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |
| 8. |  |  |
| 9. |  |  |
| 10. |  |  |
| 11. |  |  |
| 12. |  |  |
| 13. |  |  |
| 14. |  |  |
| 15. |  |  |

3. Indicating no movement:

| VERB |  | NOUN |
| :--- | :--- | :--- |
| Simple Present Tense |  |  |
|  |  |  |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

4. Indicating a change of direction: $\searrow$ or $\leftarrow$

| VERB |  | NOUN |
| :--- | :--- | :--- |
| Simple Present Tense |  |  |

## TRANSITIVE AND INTRANSITIVE VERBS

A transitive verb is an action verb which it requires a direct object in the sentence to complete its meaning.

* The population increased dramatically in the first half of the century.
* All the shirts were reduced to RM10.

An intransitive verb is an action verb without a direct object.

* The price of oil increased.
* Inflation has begun to level off.

Exercise 1: To test your understanding, make your own transitive verb and intransitive verb sentences for the following graphs. The first one has been done for you.

1. The Big Mac sale rose slightly
from January to December 2018.
2. The Big Mac sale rose slightly
from January to December 2018.


Maximal movement:


Inconsistent movement

5.
6.
7.
2.
3.
4.

## Transitive verb:

.
3.
.


都
.

Inconsistent movement


## Intransitive verb:

1. In 2018, the Big Mac sale has continued to raise.
2. 
3. 
4. 
5. 
6. 
7. 

Instead of describing the trends, we can also describe the speed and degree of a change. ADVERB is used to describe a VERB (the trends) whereas ADJECTIVE is used to describe a NOUN (the trends).

Both ADVERBS and ADJECTIVES are describing the trends or movement.


Exercise 2: To test your understanding, list all ADJECTIVES that suitable to describe a movement or trend. Then, transform the ADJECTIVES into ADVERBS.


Exercise 3: Choose the correct words to describe the following line graphs:

| rose sharply | increased gradually | remained constantly | reached a peak |
| :---: | :---: | :---: | :---: |
| fluctuated | fell gradually | levelled off | declined dramatically |


| 1. | $\square$ |  |
| :---: | :---: | :---: |
| 2. | $\square$ |  |
| 3. | $\qquad$ |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |
| 8. | Unemployment |  |

Attention! We can further describe a trend and movement by adding amount. Right here, a pie chart is used to make you understand in detail. As we know that fractions or percentages can be used to measure the segments of a Pie Chart.

## Exercise 4:

Monthly Expenses of Chong's Family in 2021

(Chegg, 2019)
In order to describe the amount in a pie chart, you need different ways to express them. Some vocabulary to describe amount are:

| Vocabulary |  |
| :--- | :--- |
| a tenth |  |
| a fifth |  |
| a quarter |  |
| a third |  |
| a half |  |


| three quarters |  |
| :--- | :--- |
| slightly more than a fifth |  |
| slightly less than a third |  |
| more than half |  |
| approximately |  |
| close to |  |
| the vast majority |  |

Look at the following table which shows a figure in different years. Numbers, fractions and percentages are the special words best to describe the figures in a sentence.

| $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :---: | :---: |
| 1200 | 1800 |

You could describe the above table using numbers, fractions or percentages.

1. The number went up by 600, from 1200 to 1800. (Number)
2. The number went up by half, from 1200 to 1800. (Fraction)
3. The number went up by 50\%, from 1200 to 1800. (Percentage)
4. The number went up $\mathbf{1 5 0 \%}$, to 1800 . (Percentage)

| $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 8}$ |
| :---: | :---: | :---: | :---: |
| 500 | 1000 | 3000 | 12000 |

1. The number doubled between 2012 to 2014.
2. The number went up six fold between 2012 and 2016.
3. The figure in 2016 is a quarter of year 2018.
4. The figure in 2016 was three times the figure in 2012.

## WRITING DESCRIPTION OF GRAPHS AND CHARTS

Before writing the description, you should identify;
a. The title
b. Axes
c. Changes
d. How did it change?
e. What comparison you can make from the data?

There are two patterns of writing the description:

1. Subject + Verb / Subject + Verb + Adverb
2. There + was a/an noun + in something

There + was + a/an adjective + noun + in something

| Graph | Subject + Verb / Subject + Verb + Adverb | There + was a/an + noun + in something <br> There + was +a /an adjective <br> + noun + in something |
| :---: | :---: | :---: |
| Population | The population rose slowly. <br> The population rose steadily. <br> The population rose slightly. <br> The population rose gently. <br> The population rose gradually. | There was a slow rise in the population. <br> There was a steady rise in the population. <br> There was a slight rise in the population. <br> There was a gentle rise in the population. <br> There was a gradual rise in the population. |

## PREPOSITIONS AND OTHER EXPRESSIONS:

1. To stand at / To start at/Verb to be

Sales stood at $\$ 125$ million in January. Then, in February they rose slightly to $\$ 127$ million.
2. From $\qquad$ to $\qquad$
The share price fell sharply from $\$ 100$ million to $\$ 60$ million last year.
3. To $\qquad$
The number of Internet subscribers dropped slightly to 50,000 people.
4. Between $\qquad$ and $\qquad$
The market share fluctuated between 10 and 50 percent in the first quarter.
5. By $\qquad$ / Of $\qquad$
My salary increased from 300,000 baht to 400,000 baht a year.
It increased by 100,000 baht.
There was an increase of 100,000 baht.
6. At $\qquad$
The company's income remained constant at \$ 100 million from 1990 to 1997.

## USING APPROXIMATION:

## If you want to indicate:

a) an estimated figure, you can use: about, around, approximately, roughly

| Figure | Approximation |
| :---: | :---: |
| 100,003 | about one hundred thousand |
| $£ 502.09$ | around five hundred pounds |
| $40.4^{\circ} \mathrm{C}$ | approximately 40 degrees Celsius |
| $60.08 \%$ | roughly sixty per cent |

b) a figure is less than your approximation, use under, less than, below, almost

| Figure | Approximation |
| :---: | :--- |
| 199,998 | just/ a little/ slightly under two hundred thousand |
| 58.3 seconds | slightly/ a little/ just// $\boldsymbol{a}$ bit less than a minute |
| $39.7 \%$ | just/ slightly/ marginally below forty per cent |
| $€ 14.9 \mathrm{bn}$ | almost 15 billion Euros |

c) a figure is more than your approximation, use over, more than, above

| Figure | Approximation |
| :---: | :--- |
| 100,008 | just/ a little / slightly / not much over one hundred thousand |
| 23 hours 6 minutes | a little/ a bit// slightly/ barely more than twenty-three hours |
| $30.1^{\circ} \mathrm{F}$ | just/ $\boldsymbol{a}$ little/ barely/ marginally above thirty degrees Fahrenheit |

d) Other words: nearly, close to, approaching

| Adverb | Figure | Approximation |
| :--- | :--- | :--- |
| nearly | 99,998 | nearly one hundred thousand |
| close to | $9.8 \%$ | close to ten per cent |
| approaching | $€ 14.7 \mathrm{bn}$ | approaching fifteen billion Euros |

e) precision you can use: precisely, exactly

| Adverb | Figure | Approximation |
| :--- | :--- | :--- |
| precisely | $32.1^{\circ} \mathrm{F}$ | precisely thirty-two point one degrees Fahrenheit |
| exactly | 2.5 cm | exactly two point five centimetres |

(EssayBuilder, 2020)

READING DESCRIPTION OF GRAPHS AND CHARTS

Before sketching a graph, from the description given, you should identify;
a. The title
b. Axes
c. Changes
d. How did it change?
e. What comparison you can make from the data?

## Exercise 1:

Try this! Read the information below and sketch a suitable graph. The pie chart shows what the average Singaporean throws away.

| Dustbin Waste | Percentage (\%) |
| :--- | :--- |
| Paper | 25 |
| Plastic | 50 |
| Glass | 13 |
| Metal | 7 |
| Cloth | 5 |

Contents of the Average Singaporean's Dustbin

## Exercise 2:

Try the second description! Read the description below and sketch a suitable graph.

In January, gold sales were about 200 million Ringgit Malaysia per month. In February, they increased slightly to RM 220 million, rising sharply to a peak of 350 million Ringgit Malaysia in March. Over the next four month, sales declined steadily, reaching a low point of 120 million Ringgit Malaysia in July.

In August, there was a sudden increase. Sales almost doubled, rising from RM 120 million in July to RM 210 million in August. This was followed by a drop in September to RM 120 million. From September to October, sales recovered from RM 120 million to RM 180 million. In October and November, sales reminded steady, and there was a small increase in December to 190 million Ringgit Malaysia.
(Dafah Ahmad, 2002)

## Exercise 3:

Study the table below carefully and sketch a suitable graph.

A survey about "Why Go to the College Library?" among PSS students was carried out. The table below shows the result of this survey. Create a suitable graph or chart. Use accurate label and legend in the graph or chart. (CLO1, C4)

Full responses:

| Study alone | $77 \%$ |
| :--- | :--- |
| Use the online databases | $51 \%$ |
| Use reference materials | $39 \%$ |
| Meet my study group | $34 \%$ |
| Check out books | $29 \%$ |
| Use books my instructor has placed on reserve | $22 \%$ |
| Look up job/career resources | $19 \%$ |
| Socialize with friends | $13 \%$ |
| Attend events | $10 \%$ |
| Read non-circulating materials (e.g., magazines and journals) | $8 \%$ |
| Sleep | $6 \%$ |
| Take classes on how to use the library's resources | $5 \%$ |
| Other | $9 \%$ |



## GRAPHS AND CHARTS REPORT WRITING

## Exercise 1:

You are advised to spend 40 minutes on this task.

The pie charts below show the number of hours spent in a Malaysian university library by undergraduates, postgraduates, and the total student population over the past year.

Summarise the information by selecting and reporting the main features and make comparisons where relevant.

Write between 150 to 200 words.


Proportion of undergraduates by time spent in library


(Clara2608, 2020)
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$

## Exercise 2:

Write a brief report on the effectiveness of extra classes conducted for the Sixth Formers in SMK Elopura Bestari.

Your report should not be more than 200 words.
Hours of Extra Classes Conducted by SMK Elopura Bestari
$\square 2005 \square 2006 \square 2007 \square 2008 \square 2009$

$\qquad$
$\qquad$
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## Exercise 3:

You are the secretary of the Prefects Board of SMK Sandakan III. Write a report on the effect of visitations to students' homes on the level of truancy in the school. You should include information from both the visuals. Your report should not be more than 200 words.

Figure 1: Visitations to Students' Homes by Administrators of SMK Sandakan III (Jan - May 2019)


Figure 2: Number of Students Caught Playing Truant in SMK Sandakan III (Jan - May 2019)

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$\qquad$
$\qquad$
$\qquad$
$\qquad$

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4
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$\qquad$ $\longrightarrow$
$\qquad$ $\longrightarrow$

## Exercise 4:

Study the following pie chart carefully and write a description.

(OpenLearn Create, 2017)

Paragraph 1: Describe what sort of chart it is and what it is about.
Paragraph 2: Describe the sections/ segments of the graph starting with the biggest and working your way down.
Paragraph 3: A short conclusion giving an overall view of what the chart is about.
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$\qquad$



## SECTION A: (5 marks)

## Instructions:

Questions $1-5$ are based on the following graph.
Study the following graph carefully and answer questions 1 to 5 .

Water Usage in Malaysia from the year 2019-2020


1. There are seven states mentioned in the bar graph.
(True/False)
2. The vertical axis shows the total of water usage in (True/False) hundred litres.
CLO1;C2
3. Sabah's water usage dropped in the year from 2019 to (True/False) 2020.
4. There was an inclination in Selangor's water usage (True/False) from 2019 to 2020.
5. Melaka's water usage grew doubly from 2019 to 2020. (True/False)

## SECTION B: (5 marks)

## Instructions:

Questions 6-10 are based on the following bar graph.
Underline the appropriate words to describe information on the quantity and types of drugs teenagers in Malaysia take.


The bar graph illustrates information on the quantity of drugs 6. $\qquad$
CLO1;C2 (youngsters / people / students) in Malaysia take, divided by gender and measured in percentages. Overall, it is immediately apparent that 7. $\qquad$ (cocaine / hashish or marijuana / solvents) is used more than any of the other drugs, whereas LSD is used the 8 . $\qquad$ (lowest / highest / same). At first glance we can see that boys take more drugs than girls for 6 out of 7 of the drugs listed, however an equal number of boys and girls take 9 . $\qquad$ (cocaine / hashish or marijuana I solvents).

To begin with, boys use more hashish or marijuana than girls at around $33 \%$ and $29 \%$ respectively. Following this, boys take heroin, opium or morphine at approximately $8 \%$, but girls at only $5 \%$.

On the other hand, the 10 . $\qquad$ (percentages / numbers / quantity) for amphetamines and solvents are similar for both boys and girls at $2 \%$ and $3 \%$ for girls and $4 \%$ for both drugs for boys. Next, the pattern for LSD and medical drugs is exactly the same for both genders at $1 \%$ for girls and $3 \%$ for boys. Finally, boys and girls take cocaine at the same level, $4 \%$.

## SECTION C: 10 marks

## Instructions:

Question 11 is based on the bar graph below.
Answer the following question based on the bar graph below.

11. What would you do to reduce the chance of getting the highest reported critical illness in 2020?

| Suggestions |  | Supporting Details |
| :---: | :---: | :---: |
| i. | (1 mark) |  |
|  |  | (1 mark) |
|  |  |  |
|  |  | (1 mark) |
| ii. |  |  |
|  |  | (1 mark) |
|  | (1 mark) | (1 mark) |

Content $\qquad$ / 6 marks

Language $\qquad$ / 4 marks

Total : $\qquad$ / 10 marks

Prepared by:


Approved by:


Head of Department (JPA)
Date:

| JABATAN PENGAJIAN AM |  |  |
| :---: | :--- | :--- |
| DUE50032 COMMUNICATIVE ENGLISH 3 | ASSESSMENT | TEST 1 (15\%) <br> T1 |
| ANSWER SCHEME | MARKS |  |


| Section A |  | Section B |  |
| :---: | :---: | :---: | :---: |
| CLO1;C1 | 1. True | CLO1;C2 | 6. youngsters <br> 7. hashish or marijuana <br> 8. lowest <br> 9. cocaine <br> 10. percentages |
| CLO1;C2 | 2. False |  |  |
| CLO1; ${ }^{\text {C1 }}$ | 3. False |  |  |
| CLO1;C2 | 4. True |  |  |
| CLO1;C2 | 5. False |  |  |

## *Award 1 mark for each correct answer.

## Section C

CLO1;A2 *Accept any relevant answer.
i. One of the lifestyle habits that Malaysians can adopt to lower the risk of getting heart disease is to exercise regularly. Regular exercise has many benefits, including strengthening heart and improving blood circulation. It can also help you maintain a healthy body weight and lower the cholesterol and blood pressure. All of these can lower the risk of heart disease.
ii. Next, Malaysians have to ensure that they get enough sleep. This is because if one doesn't get enough sleep, he or she may raise the risk of getting high blood pressure, which one of the major factors can raise his or her risk of getting heart disease. Most adults need 7 to 9 hours of sleep per night, however if a person has a sleeping problem, like sleep apnea, that is frequent interruptions in breathing during
ii. Next, Malaysians have to ensure that they get enough sleep. This is because if one doesn't get enough sleep, he or she may raise the risk of getting high blood pressure, which one of the major factors can raise his or her risk of getting heart disease. Most adults need 7 to 9 hours of sleep per night, however if a person has a sleeping problem, like sleep apnea, that is frequent interruptions in breathing during sleep can interfere the ability to get a good rest and this can raise the risk of getting heart disease.

Content : 6 marks
Content:
Award 1 mark for each suitable suggestion.
Award 1 mark for each suitable supporting detail.
Award 0 mark for any irrelevant answer.
Language : 4 marks
Language:
Award 4 marks for correct grammar, spelling and words used.
Award 3 marks for less than five errors.
Award 2 marks for comprehensible sentences with many errors.
Award 1 mark for comprehensible sentences with gross errors.
Notes:

1. The followings are the specific LOs for Unit 1 Description of Graphs and Charts in DUE50032 Course.
1.1 Organise information in graphs and charts.
1.1.1 Read labels, titles and legends in graphs and charts accurately.
1.1.2 Prepare raw data from various sources of information.
1.1.3 Display the prepared data in suitable graphic forms.
1.1.4 Clarify trends, movements and distribution patterns in graphs and charts using appropriate lexical items.
2. The highlighted LOs above (1.1.1 \& 1.1.4) are suggested to be tested because the rest of the LOs (1.1.2 \& 1.1.3) will be tested in the $20 \%$ presentation.

Prepared by:


Approved by:


Head of Department (JPA)
Date:

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